

Product datasheet for **RR209454**

Pepd (NM_001009641) Rat Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Pepd (NM_001009641) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Pepd |
| Synonyms: | MGC95081 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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ORF Nucleotide Sequence:

>RR209454 representing NM_001009641
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTCTACCGTGCGCCCTTCTTCTCCTGGGAATGAGACCCTGAAGGTGCCGCTGGCACTGTTCG
 CCCTGAACAGGCAGCGCCTGTGTGAGAGGCTGAGGAAGAATGGAGCTGTGCAGGCCGGCTCAGCTGTCGT
 GTTGACAGGGCGGGAAGAGATGCAACGATACTGCACCGATACCTCCATCATCTTCCGCCAGGAGTCTTTC
 TTTCACTGGGCCCTTCGGTGTATCGAGTCAAGGCTGCTATGGTGTGATTGACGTGGACACTGGAAAGTCAA
 CCCTGTTTGTGCCAGGCTTCTGCCAGCTATGCCACCTGGATGGGAAAGATCCATTCCAAGGAGCATT
 CAAGGAGAAGTACGCAGTGGACGATGTCCAGTACGCGGATGAGATTGCCAGTGTCTGACTTACCGAAC
 CCCTCTGTCTCTCACTTTGCGCGGTGTCAACACAGACAGTGGCAATGTCTGCAGGGAGGCTTCTTTCG
 AGGGCATTAGCAAGTTCAGTGTCAACAACAGATTCTTCAACCCAGAGATCGTGAATGCCGAGTGTCAA
 GACAGACATGGAGCTGGAGGTTTTGCGCTACACAAATCGGATCTCCAGTGAAGCCACCGTGGGATGATG
 AAGGCTGTAAAAGTGGGATGAAGGAATACGAGATGGAAAGCCTGTTCCAGCACTATTGTTACTCTAAAG
 GTGGCATGCGCCACACCTTTACACCTGTATCTGCTGCAGCGGTGAGAACGCAGCCGTGCTGCACTACGG
 CCATGCCGGGGCCCAATGACCGGACGATCAAGGATGGAGATATTTGCCTGTTGACATGGGTGGAGAG
 TACTACTGCTTCGCTTCTGACATCACCTGCTCCTTCCCTGCCAATGGCAAGTTCACAGACGACCAGAAGG
 CCATCTACGAAGCAGTGTCTAGAAGCTGCAGAACGGTGTGAGCACTATGAAGCCAGGTGTCTGGTGGCC
 TGATATGCACCGGCTGGCTGACCGCATCCACCTGGAGAACTGACACGCATTGGCCTCTGAGTGGCAGC
 GTGGATGCAATGCTCCAGTCCACCTGGGAGCAGTATTCATGCCACATGGACTCGGCCACTTCTGGGCC
 TAGATGTGCATGATGTGGGAGGCTACCTGAGGGTGTAGAGCGCATCGATGAACCTGGCTTGCAGAGCCT
 CGGTACAGCAAGGCACCTGGAGCCAGGCATGGTGTGCTGACTGTGGAGCCAGGCATCTACTTATTGACCAC
 CTCTGGACCAGGCCCTGGCAGACCCGGCCCAAGCCTGCTTCTTTAACCAAGAGGTCTACAGCCTTTTC
 GCAACTTTGGTGGGTCCGTATTGAGGAAGACGTTGTCGTGACCGACAGTGGCATGGAGCTGCTGACATG
 TGTACCCCGACTGTGGAAGAAATTGAAGCATGCATGGCAGGCTGTGACAAGGCCCTTGACCCCTTGCC
 CCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR209454 representing NM_001009641
 Red=Cloning site Green=Tags(s)

MASTVRPSFSLGNETLKVPLALFALNRQRLCERLRKNGAVQAGSAVVLLQGG EEMQRYCTDTSIIFRQESF
 FHWFAGVIESGCVGIDVDTGKSTLFPRLPASATWGMKIHSKEHFKEKYAVDDVQYADEIASVLSRN
 PSVLLTLRGVNTDSGNVCREASFEGISKFTVNNTILHPEIVECRVFKTDMELVLRNTNRISSAHREVM
 KAVKVGMEKEYEMESLFQHYCYSKGMRHTSYTCICCSGENAAVLHYGHAGAPNDRTIKDGDICLFDMGGE
 YYCFASDITCSFPANGKFTDDQKAIYEAVLRSCRTVMSTMKPGVWVPMHRLADRIHLEELTRIGLLSGS
 VDAMLQVHLGAVFMPHGLGHFLGLDVHDVGGYPEGVERIDEPLRSLRTARHLEPGMVLTVEPGIYFIDH
 LLDQALADPAQACFFNQEVLRFRNFGGVRIEEDVVVTDSGMELLTCVPRTVEEIEACMAGCDKALAPSG
 PK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

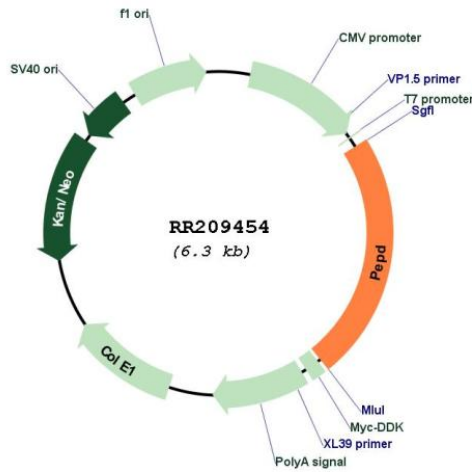
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001009641

ORF Size: 1476 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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| Reconstitution Method: | <ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C. |
| RefSeq: | <u>NM_001009641.1, NP_001009641.1</u> |
| RefSeq Size: | 1839 bp |
| RefSeq ORF: | 1479 bp |
| Locus ID: | 292808 |
| UniProt ID: | <u>Q5I0D7</u> |
| Cytogenetics: | 1q21 |
| MW: | 54.8 kDa |
| Gene Summary: | Splits dipeptides with a prolyl or hydroxyprolyl residue in the C-terminal position. Plays an important role in collagen metabolism because of the high level of iminoacids in collagen (By similarity).[UniProtKB/Swiss-Prot Function] |